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=> s kiso, yoshinobu?/au  
L1 86 KISO, YOSHINOBU?/AU

=> s l1 not py>1998  
L2 55 L1 NOT PY>1998

=> d 12 1-55

L2 ANSWER 1 OF 55 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 1997:349220 BIOSIS  
DN PREV199799648423  
TI Substituted 3-(phenylsulfonyl)-1-phenylimidazolidine-2,4-dione  
derivatives  
as novel nonpeptide inhibitors of human heart chymase.  
AU Niwata, Shinjiro; Fukami, Harukazu (1); Sumida, Motoo; Ito, Akiko;  
Kakutani, Saki; Saitoh, Masayuki; Suzuki, Kenji; Imoto, Masahiro;  
Shibata, Hiroshi; Imajo, Seiichi; **Kiso, Yoshinobu**; Tanaka, Takaharu;  
Nakazato, Hiroshi; Ishihara, Takafumi; Takai, Shinji; Yamamoto, Daisuke;  
Shiota, Naotaka; Miyazaki, Mizuo; Okunishi, Hideki; Kinoshita, Akio;  
Urata, Hidenori; Arakawa, Kikuo  
CS (1) Inst. Biomed. Res., Suntory Ltd., 1-1-1 Wakayamadai, Shimamoto-cho,  
Mishima-gun, Osaka 618 Japan  
SO Journal of Medicinal Chemistry, (1997) Vol. 40, No. 14, pp. 2156-2163.  
ISSN: 0022-2623.  
DT Article  
LA English

L2 ANSWER 2 OF 55 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 1996:81399 BIOSIS  
DN PREV199698653534  
TI Camelliatannin D, a new inhibitor of bone resorption, from *Camellia japonica*.  
AU Hatano, Tsutomu; Han, Li; Taniguchi, Shoko; Okuda, Takuo; **Kiso, Yoshinobu**; Tanaka, Takaharu; Yoshida, Takashi (1)  
CS (1) Faculty Pharmaceutical Sciences, Okayama Univ., Tsushima, Okayama 700 Japan  
SO Chemical & Pharmaceutical Bulletin (Tokyo), (1995) Vol. 43, No. 11, pp. 2033-2035.  
ISSN: 0009-2363.  
DT Article

LA English

L2 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1999:24055 CAPLUS  
DN 130:124343  
TI Eicosatrienoic acid for inhibiting intestinal ulcer in rats  
AU Yoshida, Hiroshi; Chen, Kai; Santo, Kinya; Wasa, Katsushi; Takagi, Yoji;  
Okada, Masashi; **Kiso, Yoshinobu**  
CS Department of Pediatric Surgery, Osaka University, Japan  
SO Shoka to Kyushu (1998), 21(1), 27  
CODEN: SHKYEZ; ISSN: 0389-3626  
PE Nippon Shoka Kyushu Gakkai  
DT Journal  
LA Japanese

L2 ANSWER 4 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1998:793594 CAPLUS  
DN 130:191263  
TI Liver protective and antioxidative roles of sesamin  
AU **Kiso, Yoshinobu**  
CS Basic Research Laboratory, Suntory Ltd., Japan  
SO Food Style 21 (1998), 2(12), 35-38  
CODEN: FSTYFF  
PE Shokuhin Kagaku Shinbunsha  
DT Journal; General Review  
LA Japanese

L2 ANSWER 5 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1998:712458 CAPLUS  
DN 129:302077  
TI Antioesity foods and beverages containing xylooligosaccharides  
IN Iino, Taeko; Nakahara, Koichi; Nishijima, Yasushi; Kusumoto, Akira;  
**Kiso, Yoshinobu**  
PA Suntory, Ltd., Japan  
SO Jpn. Kokai Tokyo Koho, 5 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10290681	A2	19981104	JP 1997-101916	19970418

L2 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:436009 CAPLUS  
DN 127:44462  
TI Substituted 3-(Phenylsulfonyl)-1-phenylimidazolidine-2,4-dione  
Derivatives  
as Novel Nonpeptide Inhibitors of Human Heart Chymase  
AU Niwata, Shinjiro; Fukami, Harukazu; Sumida, Motoo; Ito, Akiko; Kakutani,  
Saki; Saitoh, Masayuki; Suzuki, Kenji; Imoto, Masahiro; Shibata, Hiroshi;  
Imajo, Seiichi; **Kiso, Yoshinobu**; Tanaka, Takaharu; Nakazato,  
Hiroshi; Ishihara, Takafumi; Takai, Shinji; Yamamoto, Daisuke; Shiota,  
Naotaka; Miyazaki, Mizue; Okunishi, Hideki; Kinoshita, Akio; Urata,  
Hidenori; Arakawa, Kikuo  
CS Institute for Biomedical Research, Suntory Ltd., Osaka, 618, Japan  
SO J. Med. Chem. (1997), 40(14), 2156-2163  
CODEN: JMCMAR; ISSN: 0022-2623  
FB American Chemical Society  
DT Journal

LA English

L2 ANSWER 7 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:310799 CAPLUS  
DN 126:293363  
TI Préparation of 2-phenylsulfonyl and 2-(heterocyclsulfonyl)quinazoline derivatives as chymase inhibitors  
IN Fukami, Harukazu; Ito, Akiko; Niwata, Shinjiro; Kakutani, Saki; Sumida, Motoo; **Kiso, Yoshinobu**  
PA Suntory Limited, Japan; Fukami, Harukazu; Ito, Akiko; Niwata, Shinjiro; Kakutani, Saki; Sumida, Motoo; Kiso, Yoshinobu  
SO PCT Int. Appl., 120 pp.  
CODEN: PIKXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9711941	A1	19970403	WO 1996-JP2830	19960927
	W: JP, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	EP 795548	A1	19970917	EP 1996-932039	19960927
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	US 5814631	A	19980929	US 1997-849114	19970528
PRAI	JP 1995-285437		19950928		
	JP 1996-116557		19960510		
	WO 1996-JP2830		19960927		
OS	MARPAT 126:293363				

L2 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:189919 CAPLUS

DN 126:212145

TI Preparation of hydantoin derivatives as cardiovascular agents  
IN Fukami, Jiichi; Tsunoda, Motoo; Niwada, Shinjiro; Okada, Akiko; Sumya, Saki; Saito, Masayuki; Suzuki, Kenji; **Kiso, Yoshinobu**  
PA Suntory Ltd, Japan  
SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09031061	A2	19970204	JP 1995-216437	19950724
OS	MARPAT 126:212145				

L2 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1996:67493 CAPLUS

DN 124:135711

TI Preventive and therapeutic agents for bone diseases containing gypsogenin compounds  
IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Keiichi  
PA Suntory Ltd, Japan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07291858	A2	19951107	JP 1994-124756	19940427
OS	MARPAT 124:135711				

L2 ANSWER 10 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:67492 CAPLUS  
 DN 124:165276  
 TI Preventive and therapeutic agents for bone diseases containing  
     glycyrrhetic acid compounds  
 IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara,  
     Koichi  
 PA Suntory Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
     CODEN: JKXXAF  
 DT Patent  
 LA Japanese

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07291857	A2	19951107	JP 1994-124755	19940427

L2 ANSWER 11 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:967017 CAPLUS  
 DN 124:21761  
 TI Camelliatannin D, a new inhibitor of bone resorption, from *Camellia*  
     >japonica  
 AU Hatano, Tsutomu; Ha, Li; Taniguchi, Shoko; Okuda, Takuo; **Kiso,**  
     **Yoshinobu**; Tanaka, Takaharu; Yoshida, Takashi  
 CS Fac. Pharmaceutical Sci., Okayama Univ., Okayama, 700, Japan  
 SO Chem. Pharm. Bull. (1995), 43(11), 2033-5  
     CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English

L2 ANSWER 12 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:621765 CAPLUS  
 DN 123:17883  
 TI preparation of dipeptide derivatives for prevention or treatment of bone  
     diseases  
 IN Saito, Masayuki; Niwada, Shinjiro; Tei, Kokusai; **Kiso, Yoshinobu**  
 PA Suntory Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
     CODEN: JKXXAF  
 DT Patent  
 LA Japanese

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07089986	A2	19950404	JP 1993-273241	19930927
OS	MARPAT 123:17883				

L2 ANSWER 13 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:408770 CAPLUS  
 DN 122:170160  
 TI Hederagenins for prevention and treatment of bone diseases  
 IN **Kiso, Yoshinobu**; Kodama, Tooru; Nakahara, Koichi; Myagawa,  
     Katsuro  
 PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06345650	A2	19941220	JP 1993-178441	19930614

L2 ANSWER 14 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:392419 CAPLUS

DN 122:170179

TI Naphthalenes for prevention and treatment of bone diseases  
IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara,  
Koichi

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06340528	A2	19941213	JP 1993-163735	19930528

L2 ANSWER 15 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:346839 CAPLUS

DN 122:105410

TI Preparation of caffeic acid amide derivatives as 12-lipoxygenase  
inhibitors

IN Matsuki, Shinsuke; **Kiso, Yoshinobu**; Cho, Hidetsura; Tamaoka,  
Mie; Murota, Seiitsu; Morita, Ikuo

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 40 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06247850	A2	19940906	JP 1993-57991	19930224

OS MARPAT 122:105410

L2 ANSWER 16 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:108086 CAPLUS

DN 122:123132

TI Polyphenols for prevention and treatment of osteoporosis or other bone  
disease

IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara,  
Koichi

PA Suntory Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06183958	A2	19940705	JP 1992-353909	19921216

PI JP 06183958 A2 19940705 JP 1992-353909 19921216

L2 ANSWER 17 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:656335 CAPLUS  
 DN 121:256335  
 TI Preparation of dipeptide derivatives for treating bone diseases.  
 IN Higuchi, Naoki; Saitoh, Masayuki; Niwata, Shinjiro; **Kiso**,  
**Yoshinobu**; Hayashi, Yasuhiro  
 PA Suntory, Ltd., Japan  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 578978	A1	19940119	EP 1993-109551	19930615
	EP 578978	B1	19970115		
			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,		
SE	JP 05345754	A2	19931227	JP 1992-155115	19920615
	AT 147755	E	19970215	AT 1993-109551	19930615
	US 5399743	A	19950321	US 1993-121461	19930916
PRAI	JP 1992-155115		19920615		
	US 1993-69371		19930601		
OS	CASREACT 121:256335; MARPAT 121:256335				

L2 ANSWER 18 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:638403 CAPLUS  
 DN 121:238403  
 TI extraction of polyphenols from plants for prevention or treatment of bone diseases.  
 IN **Kiso**, **Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi  
 PA Suntory Ltd, Japan  
 SC Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06183985	A2	19940705	JP 1992-353908	19921216

L2 ANSWER 19 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:671732 CAPLUS  
 DN 119:271732  
 TI Preparation of dipeptide derivatives for treatment of bone disease  
 IN Higuchi, Naoki; Saitoh, Masayuki; Niwata, Shinjiro; **Kiso**,  
**Yoshinobu**; Hayashi, Yasuhiro  
 PA Suntory, Ltd., Japan  
 SO Eur. Pat. Appl., 36 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 543310	A2	19930526	EP 1992-119558	19921116
	EP 543310	A3	19930721		
	EP 543310	B1	19960327		
			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,		
SE					

JP 05140063	A2	19930608	JP 1991-303351	19911119
US 5395824	A	19950307	US 1992 969453	19921030
AT 136025	E	19960416	AT 1992-119558	19921116
PRAI JP 1991-303351		19911119		
OS MARPAT 119:271732				

L2 ANSWER 20 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:72959 CAPLUS  
 DN 118:72959  
 TI Assay methods for antihepatotoxic activity  
 AU **Kiso, Yoshinobu**; Hikino, Hiroshi  
 CS Suntory Inst. Biomed. Res., Osaka, 618, Japan  
 SO Methods Plant Biochem. (1991), 6(Assays Bioact.), 219-33  
 CODEN: MPBIEY; ISSN: 1059-7522  
 DT Journal; General Review  
 LA English

L2 ANSWER 21 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:658229 CAPLUS  
 DN 117:258229  
 TI Prophylactic and therapeutic agents for bone diseases comprising di- or tripeptide derivatives as active ingredients  
 IN **Kiso, Yoshinobu**; Hayashi, Yasuhiro; Higuchi, Naoki; Saitoh, Masayuki; Hashimoto, Masaki  
 PA Suntory, Ltd., Japan  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 504938	A2	19920923	EP 1992-104920	19920320
	EP 504938	A3	19930414		
	EP 50155764	A2	19930622	JP 1991-59182	19910322
	JP 05178758	A2	19930720	JP 1991-59185	19910322
PRAI	JP 1991-59182		19910322		
	JP 1991-59185		19910322		
OS	MARPAT 117:258229				

L2 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:143873 CAPLUS  
 DN 116:143873  
 TI Preparation of thiazolidines and glycation inhibitors containing them  
 IN Sumoto, Fumihiro; Miyano, Seiji; Tatsuoka, Toshio; **Kiso, Yoshinobu**  
 PA Suntory, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JYXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03261772	A2	19911121	JP 1990-59490	19900309
OS	MARPAT 116:143873				

L2 ANSWER 23 OF 55 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:185122 CAPLUS  
 DN 114:185122

TI Novel caffeic acid derivatives: extremely potent inhibitors of  
12 lipoxygenase

AU Cho, Hidetsura; Ueda, Masaru; Tamaoka, Mie; Hamaguchi, Mikiko; Aisaka,  
Kazue; **Kiso, Yoshinobu**; Inoue, Teruyoshi; Ogino, Ryoko;  
Tatsuoka, Toshio; et al.

CS Suntory Inst. Biomed. Res., Osaka, 618, Japan

SO J. Med. Chem. (1991), 34(4), 1503-5  
CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 114:185122

L2 ANSWER 24 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1988:215711 CAPLUS  
DN 108:215711

TI Validity of Oriental medicines. Part 121. Liver-protecting drugs. Part  
36.

Assay method for antihepatotoxic activity using macrophage-mediated  
cytotoxicity in primary cultured hepatocytes

AU **Kiso, Yoshinobu**; Kato, Shinsuke; Kawakami, Yutaka; Hikino,  
Hiroshi

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Phytother. Res. (1987), 1(2), 61-4  
CODEN: PHYREH

DT Journal

LA English

L2 ANSWER 25 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1987:570017 CAPLUS  
DN 107:170017

TI Assay method for antihepatotoxic activity using complement-mediated  
cytotoxicity in primary cultured hepatocytes

AU **Kiso, Yoshinobu**; Kawakami, Yutaka; Kikuchi, Kumiko; Hikino,  
Hiroshi

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Planta Med. (1987), 53(3), 241-7  
CODEN: PLMEA; ISSN: 0032-0943

DT Journal

LA English

L2 ANSWER 26 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1987:114832 CAPLUS  
DN 106:114832

TI Antihepatotoxic drugs. Part 32. Antihepatotoxic principles of *Wedelia  
chinensis* herbs

AU Yang, Ling Ling; Yen, Kun Ying; Konno, Chohachi; Oshima, Yoshiteru;  
**Kiso, Yoshinobu**; Hikino, Hiroshi

CS Taipei Med. Coll., Taipei, Taiwan

SO Planta Med. (1986), (6), 499-500  
CODEN: PLMEA; ISSN: 0032-0943

DT Journal

LA English

L2 ANSWER 27 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1987:12713 CAPLUS  
DN 106:12713

TI Coumestans as the main active principles of the liver drugs *Eclipta alba*  
and *Wedelia calendulacea*

AU Wagner, Hildebert; Geyer, Bettina; **Kiso, Yoshinobu**; Hikino,  
Hiroshi; Rao, Govind S.

CS Inst. Pharm. Biol., Univ. Muenchen, Munich, D-8000/2, Fed. Rep. Ger.  
SO Planta Med. (1986), (5), 370-4  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 28 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:546180 CAPLUS  
DN 105:146180  
TI Oriental medicines. Part 108. Liver protective drugs. Part 29.  
Antihepatotoxic actions of Allium sativum bulbs  
AU Hikino, Hiroshi; Tohkin, Masahiro; **Kiso, Yoshinobu**; Namiki, Tsuneo; Nishimura, Shoji; Takeyama, Kimori  
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SO Planta Med. (1986), (3), 163-8  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 29 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:454578 CAPLUS  
DN 105:54578  
TI Liver-protective drugs. Part 30. Drugs for liver therapy. Part 12.  
Isobutrin and butrin, the antihepatotoxic principles of Butea monosperma flowers  
AU Wagner, Hildebert; Geyer, Bettina; Fiebig, Manfred; **Kiso, Yoshinobu**; Hikino, Hiroshi  
CS Inst. Pharm. Biol., Univ. Munich, Munich, D-8000/2, Fed. Rep. Ger.  
SO Planta Med. (1986), (2), 77-9  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 30 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:81514 CAPLUS  
DN 104:81514  
TI Antihepatotoxic actions of gingerols and diarylheptanoids  
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kato, Nobuharu; Hamada, Yasumasa; Shioiri, Takayuki; Aiyama, Ritsuo; Itokawa, Hideji; Kiuchi, Fumiyuki; Sankawa, Ushio  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO J. Ethnopharmacol. (1985), 14(1), 31-9  
CODEN: JOETD7; ISSN: 0378-8741  
DT Journal  
LA English

L2 ANSWER 31 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:62041 CAPLUS  
DN 104:62041  
TI Assay method for antihepatotoxic activity using ionophore A23187 induced cytotoxicity in primary cultured hepatocytes  
AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SO Shoyakugaku Zasshi (1985), 39(3), 218-22  
CODEN: SHZAA7; ISSN: 0037-4377  
DT Journal  
LA English

L2 ANSWER 32 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:62032 CAPLUS

DN 104:62032  
TI Validity of oriental medicines. Part 84. Tohoku University series on liver-protective drugs. Part 4. Okayama University series on the effects of the interaction of tannins with coexisting substances. Part 4. Antihepatotoxic actions of tannins

AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Hatano, Tsutomu; Yoshida, Takashi; Okuda, Takuo  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO J. Ethnopharmacol. (1985), 14(1), 19-29  
CODEN: JOETD7; ISSN: 0378-8741  
DT Journal  
LA English

L2 ANSWER 33 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:28822 CAPLUS  
DN 104:28822  
TI Antihepatotoxic principles of *Phyllanthus niruri* herbs  
AU Syamasundar, Kodakandla Venkata; Singh, Bikram; Thakur, Raghunath Singh; Husain, Akhtar; **Kiso, Yoshinobu**; Hikino, Hiroshi  
CS Cent. Inst. Med. Aromat. Plants, Lucknow, India  
SO J. Ethnopharmacol. (1985), 14(1), 41-4  
CODEN: JOETD7; ISSN: 0378-8741  
DT Journal  
LA English

L2 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:606499 CAPLUS  
DN 103:206499  
TI Oriental medicines. Part 97. Liver protective drugs. Part 28. Mechanism of antihepatotoxic activity of wuweizisu C and gomisin A  
AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi; Ikeya, Yukinobu; Taguchi, Heiachiro  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1985), (4), 331-4  
CODEN: PLMEA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:554067 CAPLUS  
DN 103:154067  
TI Antihepatotoxic principles of *Swertia japonica* herbs  
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kubota, Masatoshi; Hattori, Masao; Namba, Tsuneo  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Shoyakugaku Zasshi (1984), 38(4), 359-60  
CODEN: SHZAAZ; ISSN: 0037-4377  
DT Journal  
LA English

L2 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:482912 CAPLUS  
DN 103:82912  
TI Validity of the Oriental medicines. 72. Liver-protective drugs. 17. Mechanism of antihepatotoxic activity of atracylyon, I: effect on free radical generation and lipid peroxidation  
AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1985), (2), 97-100

CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 37 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:447833 CAPLUS

DN 103:47833  
TI Validity of the Oriental medicines. 73. Liver-protective drugs. 18.

Antihepatotoxic actions of ginsenosides from Panax ginseng roots  
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kinouchi, Junko; Sanada,

Shuichi; Shoji, Junzo

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Planta Med. (1985), (1), 62-4

CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 38 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:214629 CAPLUS

DN 102:214629  
TI Validity of the Oriental medicines. 68. Liver-protective drugs. 15.

Analgesic and antihepatotoxic actions of dianosides, triterpenoid  
saponins

of Dianthus superbus var. longicalycinus herbs  
AU Hikino, Hiroshi; Ohsawa, Takatomi; **Kiso, Yoshinobu**; Oshima,

Yoshiteru

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Planta Med. (1984), 50(4), 353-5

CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 39 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:201124 CAPLUS

DN 102:201124

TI Structures of cleomiscosins, coumarinolignoids of Cleome viscosa seeds  
AU Ray, Anil B.; Chattopadhyay, Sunil K.; Kumar, Sandeep; Konno, Chohachi;

**Kiso, Yoshinobu**; Hikino, Hiroshi

CS Dep. Med. Chem., Banaras Hindu Univ., Varanasi, 221005, India

SO Tetrahedron (1985), 41(1), 209-14

CODEN: TETRAB; ISSN: 0040-4020

DT Journal  
LA English

L2 ANSWER 40 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:197969 CAPLUS

DN 102:197969

TI Validity of the Oriental medicines. Part 74. Liver protective drugs.  
Part 20. Studies on the constituents of Ephedra. Part 17.

Pharmacological actions of analogs of feruloylhistamine, an imidazole  
alkaloid of Ephedra roots

AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Ogata, Minoru; Konno,  
Chohachi; Aisaka, Kazuo; Kubota, Hiroaki; Hirose, Nakako; Ishihara,

Takafumi

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Planta Med. (1984), 50(6), 478-80

CODEN: PLMEAA; ISSN: 0032-0943

DT Journal  
LA English

L2 ANSWER 41 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:197530 CAPLUS  
DN 102:197530  
TI Liver protective drugs. Part 16. Antihepatotoxic actions of  
flavonolignans from *Silybum marianum* fruits  
AU Hikino, Hiroshi; Kiso, Yoshinobu; Wagner, Hildebert; Fiebig,  
Manfred  
CS Pharm. Inst., Tohoku Univ., Sendai, 980. Japan  
SO *Planta Med.* (1984), 50(3), 248-50  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 42 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:197529 CAPLUS  
DN 102:197529  
TI Validity of the Oriental medicines. 60. Liver-protective drugs. 11.  
Antihepatotoxic actions of lignoids from *Schizandra chinensis* fruits  
AU Hikino, Hiroshi; Kiso, Yoshinobu; Taguchi, Heihachiro; Ikeya,  
Yukinobu  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO *Planta Med.* (1984), 50(3), 213-18  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:197420 CAPLUS  
DN 102:197420  
TI Validity of the Oriental medicines. 88. Liver-protective drugs. 26.  
Assay methods for antihepatotoxic activity using peroxide-induced  
cytotoxicity in primary cultured hepatocytes  
AU Kiso, Yoshinobu; Kato, Osamu; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO *Planta Med.* (1985), (1), 50-2  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 44 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:178740 CAPLUS  
DN 102:178740  
TI Validity of Oriental medicines. 65. Liver-protective drugs. 14. Mechanism  
of antihepatotoxic activity of glycyrrhizin, I: Effect on free radical  
generation and lipid peroxidation  
AU Kiso, Yoshinobu; Tohkin, Masahiro; Hikino, Hiroshi; Hattori,  
Masao; Sakamoto, Tatsuya; Namba, Tsuneo  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO *Planta Med.* (1984), 50(4), 298-302  
CODEN: PLMEAA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 45 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:90939 CAPLUS  
DN 102:90939  
TI Antihepatotoxic actions of papyriogenins and papyriosides, triterpenoids  
of *Tetrapanax papyriferum* leaves  
AU Hikino, Hiroshi; Kiso, Yoshinobu; Amagaya, Sakae; Ogihara, Yukio  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO J. Ethnopharmacol. (1984), 12(2), 231-5  
CODEN: JOETD7; ISSN: 0378-8741  
DT Journal  
LA English

L2 ANSWER 46 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:56094 CAPLUS  
DN 102:56094  
TI Liver protective drugs. 13. Antihepatotoxic principles of *Salvia plebeia*  
herbs  
AU Oshima, Yoshiteru; Kawakami, Yutaka; **Kiso, Yoshinobu**; Hikino, Hiroshi; Yang, Ling Ling; Yen, Kun Ying  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Shoyakugaku Zasshi (1984), 38(2), 201-2  
CODEN: SHZAAY; ISSN: 0037-4377  
DT Journal  
LA English

L2 ANSWER 47 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1985:56093 CAPLUS  
DN 102:56093  
TI Liver protective drugs. 12. Antihepatotoxic principles of *Aeginetia indica* herbs  
AU Oshima, Yoshiteru; Kawakami, Yutaka; **Kiso, Yoshinobu**; Hikino, Hiroshi; Yang, Ling Ling; Yen, Kun Ying  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Shoyakugaku Zasshi (1984), 38(2), 198-200  
CODEN: SHZAAY; ISSN: 0037-4377  
DT Journal  
LA English

L2 ANSWER 48 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1984:504052 CAPLUS  
DN 101:104062  
TI Validity of Oriental medicines. 56. Liver-protective drugs. 10.  
Antihepatotoxic principles of *Artemisia capillaris* buds  
AU **Kiso, Yoshinobu**; Ogasawara, Shoko; Hirota, Keiko; Watanabe, Noriko; Oshima, Yoshiteru; Konno, Chohachi; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SO Planta Med. (1984), 50(1), 81-5  
CODEN: PLMEA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1984:151003 CAPLUS  
DN 100:151003  
TI Validity of the oriental medicines. Part 53. Liver-protective drugs.  
Part 8. Antihepatotoxic principles of *Curcuma longa* rhizomes  
AU **Kiso, Yoshinobu**; Suzuki, Yuriko; Watanabe, Noriko; Oshima, Yoshiteru; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1983), 49(3), 185-7  
CODEN: PLMEA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1984:114469 CAPLUS

DN 100:114469  
TI Validity of oriental medicines Part 51. Liver protective drugs. Part 6. Assay method for antinepatotoxic activity using carbon tetrachloride induced cytotoxicity in primary cultured hepatocytes  
AU **Kiso, Yoshinobu**; Tchkin, Masahiro; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Planta Med. (1983), 49(4), 222-5  
CODEN: PLMEA; ISSN: 0032-0943  
DT Journal  
LA English

L2 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1984:74050 CAPLUS  
DN 100:74050  
TI Validity of Oriental medicines. Part 52. Liver-protective drugs. 7. Assay method for antihepatotoxic activity using galactosamine-induced cytotoxicity in primary-cultured hepatocytes  
AU **Kiso, Yoshinobu**; Tchkin, Masahiro; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO J. Nat. Prod. (1983), 46(4), 841-7  
CODEN: JNPRDF; ISSN: 0163-3964  
DT Journal  
LA English

L2 ANSWER 52 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1983:555139 CAPLUS  
DN 99:155139  
TI Stereostructure of curhone, a sesquiterpenoid of Curcuma longa rhizomes  
AU **Kiso, Yoshinobu**; Suzuki, Yuriko; Oshima, Yoshiteru; Hikino, Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Phytochemistry (1983), 22(2), 596-7  
CODEN: PYTCAS; ISSN: 0031-9422  
DT Journal  
LA English

L2 ANSWER 53 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1983:27915 CAPLUS  
DN 98:27915  
TI Protective action of desoxypodophyllotoxin on D-galactosamine-induced liver lesion in rats  
AU **Kiso, Yoshinobu**; Konno, Chohachi; Hikino, Hiroshi; Hashimoto, Ichio; Wakasa, Haruki  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Chem. Pharm. Bull. (1982), 30(10), 3817-21  
CODEN: CPBTAL; ISSN: 0009-2363  
DT Journal  
LA English

L2 ANSWER 54 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1982:574487 CAPLUS  
DN 97:174487  
TI Validity of the Oriental medicines. Part 40. Liver-protective drugs. Part 4. Liver-protective actions of desoxypodophyllotoxin and its analogs  
AU **Kiso, Yoshinobu**; Konno, Chohachi; Hikino, Hiroshi; Yagi, Yukiko; Hashimoto, Ichio  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO J. Pharmacobio-Dyn. (1982), 5(8), 638-41  
CODEN: JOPHDQ; ISSN: 0386-846X  
DT Journal

LA English

L2 ANSWER 55 OF 55 CAPLUS COPYRIGHT 2002 ACS  
AN 1982:550629 CAPLUS  
DN 97:150629  
TI Liver protective drugs. 5. Validity of the oriental medicines. Part  
42. Structure of arcapillin, an antihepatotoxic principle of Artemisia  
capillaris herbs  
AU Kiso, Yoshinobu; Sasaki, Keiko; Oshima, Yoshiteru; Hikino,  
Hiroshi  
CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
SO Heterocycles (1982), 19(9), 1615-17  
CODEN: HTCYAM; ISSN: 0385-5414  
DT Journal  
LA English

=> s hyperammonemia or blood(w:ammonia?  
L3 5969 HYPERAMMONEMIA OR BLOOD(W) AMMONIA?

=> s l3 and xylobiose?  
L4 1 L3 AND XYLOBIOSE?

=> s l3 and xylooligosaccharide?  
L5 0 L3 AND XYLOOLIGOSACCHARIDE?

=> s l3 and xylose?  
L6 2 L3 AND XYLOSE?

=> d 14 abs ibib

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AB Blood ammonia-lowering agents, remedies for  
hyperammonemia, or remedies for hepatic encephalopathy without any  
fear of the incidence of side effects, comprise **xylobiose** or a  
xylooligosaccharide contg. **xylobiose** as the main component which  
is used as a substitute for lactulose to thereby reduce administration  
dose. Lactulose, which has been employed in drugs, should be  
administered  
in a large dose and suffers from a problem in safety when administered to  
patients with galactosemia or diabetes. These problems can be solved by  
the above drugs contg. **xylobiose** as the main component.

ACCESSION NUMBER: 2000:401659 CAPLUS  
DOCUMENT NUMBER: 133:26861  
TITLE: Remedies for **hyperammonemia**  
INVENTOR(S): Kiso, Yoshinobu; Iino, Taeko; Kato, Shinzo  
PATENT ASSIGNEE(S): Suntory Limited, Japan  
SOURCE: PCT Int. Appl., 25 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033850	A1	20000615	WO 1999-JP6901	19991209
W: AU, CA, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE  
EP 1157697 A1 20011128 EP 1999 959718 19991209  
R: AT, BE, CH, DE, DK, ES, FR, GB, GF, IT, LI, LU, NL, SE, MC, PT,  
IE, FI  
PRIORITY APPLN. INFO.: JP 1998-351955 A 19981210  
WO 1999-JP6901 W 19991209  
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

=> d 16 abs ibib 1-2

L6 ANSWER 1 OF 2 MEDLINE  
AB Although total diversion of portal blood flow has been considered to be the main factor leading to encephalopathy following nonselective shunt (NSS), increased intestinal absorption of cerebral toxins secondary to mesenteric venous decompression could also play a role. Conversely, the low frequency of encephalopathy after the distal splenorenal shunt (DSRS) may be due to preservation of both hepatic portal perfusion and mesenteric venous hypertension. Portal hemodynamics, intestinal absorption of D-**xylose**, ammonia metabolism, and clinical encephalopathy were assessed preoperatively and in the early and late postoperative periods in cirrhotic patients selected for the DSRS (n = 12) and NSS (n = 10). Preoperatively, NSS patients had significantly less hepatopetal portal blood flow (P = 0.03) and lower D-**xylose** absorption (P = 0.004) than DSRS patients. DSRS resulted in no significant alterations in hepatic portal perfusion, portal pressure, D-**xylose** absorption, fasting **blood ammonia** (NH3), or tolerance to an oral dose of ammonium chloride. In contrast, NSS resulted in complete portal diversion and decompression and significant enhancement of D-**xylose** absorption on both the early (P = 0.02) and late (P = 0.03) postoperative evaluations. Early and late postoperative levels of NH3 were significantly higher in NSS patients. Encephalopathy was more frequent after NSS (80%) than after DSRS (17%, P = 0.003). When all patients were considered, preoperative to early DSRS (17%, P = 0.003). When all patients were considered, preoperative to early postoperative change in NH3 correlated with change in D-**xylose** absorption ( $r = 0.52$ ,  $p = 0.02$ ), and there were significantly more individuals with a greater than 2 gm increase in D-**xylose** absorption who developed encephalopathy (83%) than patients with no or minimal increase in D-**xylose** absorption (33%, P = 0.04). The results of this study suggest that altered intestinal absorption may be one of many factors determining postshunt cerebral function.

ACCESSION NUMBER: 83276253 MEDLINE  
DOCUMENT NUMBER: 83276253 PubMed ID: 6879434  
TITLE: Portal hemodynamics, intestinal absorption, and postshunt encephalopathy.  
AUTHOR: Rikkers L F  
CONTRACT NUMBER: 1R01AM31371 (NIADDK)  
RR64 (NCRR)  
SOURCE: SURGERY, (1983 Aug) 94 (2) 126-33.  
Journal code: VC3; 0417347. ISSN: 0039-6060.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English  
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 198309  
ENTRY DATE: Entered STN: 19900319  
Last Updated on STN: 19970203  
Entered Medline: 19830909

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS  
AB Pullulan (I) and dextran (II) promote the growth of bifidobacteria in humans and animals. Such promotion is effective in maintaining and improving health and beauty, as well as preventing and/or treating diseases, e.g. geriatric diseases, **hyperammonemia**, and hepatic encephalopathy. The presence of certain oligosaccharides, e.g. lactulose, greatly enhances such promotion. Thus, I and II are useful for or in health foods, pharmaceuticals, animal feeds, and pet foods. A variety of compns. are described. Pulverized corn bran 100, pullulan (mol. wt. apprx.300,000) 100, Panorup 5 parts by wt., and an appropriate amt. of water were mixed to homogeneity, and the mixt. was granulated. The above compn. can also be tableted. Unlike scl. starch, I and II, administered to volunteers over a 14-day period, increased amt. of feces/day, bifidobacteria count/g feces, the ratio of bifidobacteria to total cell count (1.5-2 fold), total bifidobacteria count (2-4 fold); pH of the feces was decreased by 0.5-1.0. Pullulan was superior to dextran with respect to the above observations.

ACCESSION NUMBER: 1991:163008 CAPLUS  
DOCUMENT NUMBER: 114:163008  
TITLE: Compositions containing pullulan and/or dextran and their use in promoting the growth of intestinal bifidobacteria  
INVENTOR(S): Mitsuhashi, Masakazu; Yoneyama, Masaru; Sakai, Shuzo  
PATENT ASSIGNEE(S): Hayashibara Biochemical Laboratories, Inc., Japan  
SOURCE: Eur. Pat. Appl., 9 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 382355	A2	19900816	EP 1990-300548	19900118
EP 382355	A3	19911113		
EP 382355	B1	19970820		
R: DE, FR, GB, IT, SE				
JP 02289520	A2	19901129	JP 1989-322564	19891214
JP 2779963	B2	19980723		
CA 2007270	AA	19900809	CA 1990-2007270	19900105
PRIORITY APPLN. INFO.:			JP 1989-28661	19890209
			JP 1989-322564	19891214

=> s 16 and therapeutics?  
L7 0 L6 AND THERAPEUTICS?

=> s 16 and treatment?  
L8 1 L6 AND TREATMENT?

=> d 18 abs ibib

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AB Pullulan (I) and dextran (II) promote the growth of bifidobacteria in humans and animals. Such promotion is effective in maintaining and improving health and beauty, as well as preventing and/or treating diseases, e.g. geriatric diseases, **hyperammonemia**, and hepatic encephalopathy. The presence of certain oligosaccharides, e.g. lactulose, greatly enhances such promotion. Thus, I and II are useful for or in health foods, pharmaceuticals, animal feeds, and pet foods. A variety of compns. are described. Pulverized corn bran 100, pullulan (mol. wt. apprx.300,000) 100, Panorup 5 parts by wt., and an appropriate amt. of water were mixed to homogeneity, and the mixt. was granulated. The above compn. can also be tableted. Unlike sol. starch, I and II, administered to volunteers over a 14 day period, increased amt. of feces/day, bifidobacteria count/g feces, the ratio of bifidobacteria to total cell count (1.5-2 fold), total bifidobacteria count (2-4 fold); pH of the feces was decreased by 0.5-1.0. Pullulan was superior to dextran with respect to the above observations.

ACCESSION NUMBER: 1991:163008 CAPLUS  
DOCUMENT NUMBER: 114:163008  
TITLE: Compositions containing pullulan and/or dextran and their use in promoting the growth of intestinal bifidobacteria  
INVENTOR(S): Mitsuhashi, Masakazu; Yoneyama, Masaru; Sakai, Shuzo  
PATENT ASSIGNEE(S): Hayashibara Biochemical Laboratories, Inc., Japan  
SOURCE: Eur. Pat. Appl., 9 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 382355	A2	19900816	EP 1990-300548	19900118
EP 382355	A3	19911113		
EP 382355	B1	19970820		
R: DE, FR, GB, IT, SE				
JP 02289520	A2	19901129	JP 1989-322564	19891214
JP 2779963	B2	19980723		
CA 2007270	AA	19900809	CA 1990-2007270	19900105
PRIORITY APPLN. INFO.:			JP 1989-28661	19890209
			JP 1989-322564	19891214

=> s 16 and lowering(w) agent?  
L9 0 L6 AND LOWERING(W) AGENT?

=> s 16 and blood?  
L10 1 L6 AND BLOOD?

=> d 110

L10 ANSWER 1 OF 1 MEDLINE  
AN 83276253 MEDLINE  
DN 83276253 PubMed ID: 6879434  
TI Portal hemodynamics, intestinal absorption, and portshunt encephalopathy.

AU Pikkens L F  
NC 1P01AM31371 (NIADDK)  
RR64 (NCRP)  
SO SURGERY, (1983 Aug) 94 (2) 126 33.  
Journal code: VC3; 0417347. ISSN: 0039 6060.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 198309  
ED Entered STN: 19900319  
Last Updated on STN: 19970203  
Entered Medline: 19830909

=> s 16 and pharmaceutical?  
L11 1 L6 AND PHARMACEUTICAL?

=> d 111

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 1991:163008 CAPLUS  
DN 114:163008  
TI Compositions containing pullulan and/or dextran and their use in  
promoting  
the growth of intestinal bifidobacteria  
IN Mitsuhashi, Masakazu; Yoneyama, Masaru; Sakai, Shuzo  
PA Hayashibara Biochemical Laboratories, Inc., Japan  
SO Eur. Pat. Appl., 9 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1  

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 382355	A2	19900816	EP 1990-300548	19900118
	EP 382355	A3	19911113		
	EP 382355	B1	19970820		
	R: DE, FR, GB, IT, SE				
	JP 02289520	A2	19901129	JP 1989-322564	19891214
	JP 2779963	B2	19980723		
	CA 2007270	AA	19900809	CA 1990-2007270	19900105
PRAI	JP 1989-28661		19890209		
	JP 1989-322564		19891214		

=> s 16 and blood(w) ammonia(w) lowering?  
L12 0 L6 AND BLOOD(W) AMMONIA(W) LOWERING?

=> s 16 and agent?  
L13 0 L6 AND AGENT?

=> s blood(w) ammonia?  
L14 2454 BLOOD(W) AMMONIA?

=> s 114 and xylose?  
L15 1 L14 AND XYLOSE?

=> s 114 and xylobiose?  
L16 1 L14 AND XYLOBIOSE?

=> d 115

L15 ANSWER 1 OF 1 MEDLINE  
AN 83276253 MEDLINE  
DN 83276253 PubMed ID: 6879434  
TI Portal hemodynamics, intestinal absorption, and postshunt  
encephalopathy.  
AU Rikkers L F  
NC 1F01AM31371 (NIADDK)  
RP64 (NCRR)  
SO SURGERY, (1983 Aug) 94 (2) 126-33.  
Journal code: VC3; 0417347. ISSN: 0039-6060.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 198309  
ED Entered STN: 19900319  
Last Updated on STN: 19970203  
Entered Medline: 19830909

=> d 116

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 2000:401659 CAPLUS  
DN 133:26861  
TI Remedies for hyperammonemia  
IN Kiso, Yoshinobu; Iino, Taeko; Kato, Shinzo  
PA Suntory Limited, Japan  
SO PCT Int. Appl., 25 pp.  
CODEN: PIXXD2  
ET Patent  
LA Japanese  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI WO 2000033850 A1 20000615 WO 1999-JP6901 19991209  
W: AU, CA, US  
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE  
EP 1157697 A1 20011128 EP 1999-959718 19991209  
F: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI  
PRAI JP 1998-351955 A 19981210  
WO 1999-JP6901 W 19991209  
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 114 and treatment?

L17 411 L14 AND TREATMENT?

=> d 117 not py>1997

'NOT' IS NOT A VALID FORMAT

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++ s l17 not py:1997  
L18 320 L17 NOT PY:1997

++ d l18 1-50

L18 ANSWER 1 OF 320 MEDLINE  
AN 19980444486 MEDLINE  
DN 980444486 PubMed ID: 9383349  
TI Hepatic coma recovered after interventional obliteration for  
ileocecal-inferior vena cava shunt--report of one case.  
AU Sawano T; Kawashima T; Takase Y; Chikamori F; Shibuya S; Fukao K  
CS Department of Surgery, Tsukuba Soai Hospital.  
SO WIADOMOSCI LEFARSKIE, (1997) 50 Suppl 1 Pt 1 296-7.  
Journal code: 9705467. ISSN: 0043-5147.  
CY Poland  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199801  
ED Entered STN: 19980206  
Last Updated on STN: 20020220  
Entered Medline: 19980129

L18 ANSWER 2 OF 320 MEDLINE  
AN 97468050 MEDLINE  
DN 97468050 PubMed ID: 9327194  
TI Rifaximin, a non-absorbable rifamycin, for the **treatment** of  
hepatic encephalopathy. A double-blind, randomised trial.  
AU Miglio F; Valpiani D; Rossellini S R; Ferrieri A  
CS Service of First Aid and Emergency Medicine, St Orsola Hospital, Bologna,  
Italy.  
SO CURRENT MEDICAL RESEARCH AND OPINION, (1997) 13 (10) 593-601.  
Journal code: DUX; 0351014. ISSN: 0300-7995.  
CY ENGLAND: United Kingdom  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(MULTICENTER STUDY)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199711  
ED Entered STN: 19971224  
Last Updated on STN: 19971224  
Entered Medline: 19971106

L18 ANSWER 3 OF 320 MEDLINE  
AN 97455258 MEDLINE  
DN 97455258 PubMed ID: 9309629  
TI Pre-exercise branched-chain amino acid administration increases endurance  
performance in rats.  
AU Calders P; Pannier J L; Matthys D M; Lacroix E M  
CS Laboratory of Normal and Pathological Physiology, University of Gent,  
Belgium.  
SO MEDICINE AND SCIENCE IN SPORTS AND EXERCISE, (1997 Sep) 29 (9) 1182-6.  
Journal code: MG8; 8005433. ISSN: 0195-9131.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)

LA English  
FS Priority Journals  
EM 199710  
ED Entered STN: 19971224  
Last Updated on STN: 19971224  
Entered Medline: 19971030

L18 ANSWER 4 OF 320 MEDLINE  
AN 97329239 MEDLINE  
DN 97329239 PubMed ID: 9185752  
TI Therapeutic efficacy of L-ornithine-L-aspartate infusions in patients with cirrhosis and hepatic encephalopathy: results of a placebo-controlled, double-blind study.  
AU Kircheis G; Nilius R; Held C; Berndt H; Buchner M; Gortelmeyer R; Hendricks R; Kruger B; Kuklinski B; Meister H; Otto H J; Rink C; Rosch W; Stauch S  
CS Martin-Luther-University Halle-Wittenberg, Department of Internal Medicine, Germany.  
SO HEPATOLOGY, (1997 Jun) 25 (6) 1351-60.  
Journal code: GBZ; 8302946. ISSN: 0270-9139.  
CY United States  
DT (CLINICAL TRIAL)  
(JOURNAL ARTICLE)  
(MULTICENTER STUDY)  
(PANDEMIC CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199707  
ED Entered STN: 19970724  
Last Updated on STN: 19970724  
Entered Medline: 19970714

L18 ANSWER 5 OF 320 MEDLINE  
AN 97206040 MEDLINE  
DN 97206040 PubMed ID: 9148009  
TI L-ornithine vs. L-ornithine-L-aspartate as a treatment for hyperammonemia-induced encephalopathy in rats.  
AU Vogels B A; Karlsen O T; Mass M A; Bovee W M; Chamuleau R A  
CS University of Amsterdam, Department of Experimental Internal Medicine, The Netherlands.  
SO JOURNAL OF HEPATOLOGY, (1997 Jan) 26 (1) 174-82.  
Journal code: IBS; 8503886. ISSN: 0168-8278.  
CY Denmark  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199705  
ED Entered STN: 19970523  
Last Updated on STN: 19970523  
Entered Medline: 19970509

L18 ANSWER 6 OF 320 MEDLINE  
AN 96371822 MEDLINE  
DN 96371822 PubMed ID: 8775645  
TI Blood lactate and ammonia in short-term anaerobic work following induced alkalosis.  
AU Ibanez J; Pullinen T; Gorostiaga E; Postigo A; Merc A  
CS Centro de Investigacion y Medicina del Deporte, Instituto Navarro de

Deporte y Juventud, Gobierno de Navarra, Pamplona, Spain.  
SO JOURNAL OF SPORTS MEDICINE AND PHYSICAL FITNESS, (1995 Sep) 35 (3)  
187 93.  
Journal code: K6V; 0376337. ISSN: 0022 4707.  
CY Italy  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199612  
ED Entered STN: 19970128  
Last Updated on STN: 19970128  
Entered Medline: 19961206

L18 ANSWER 7 OF 320 MEDLINE  
AN 96369529 MEDLINE  
DN 96369529 PubMed ID: 8773535  
TI Studies on ammonia-metabolizing enzymes during Plasmodium yoelii  
infection  
and pyrimethamine **treatment** in mice.  
AU Agrawal A; Tripathi L M; Puri S K; Pandey V C  
CS Division of Biochemistry, Central Drug Research Institute, Lucknow,  
India.  
SO INTERNATIONAL JOURNAL FOR PARASITOLOGY, (1996 Apr) 26 (4) 451-5.  
Journal code: GSB; 0314024. ISSN: 0020-7519.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199610  
ED Entered STN: 19961025  
Last Updated on STN: 19980205  
Entered Medline: 19961011

L18 ANSWER 8 OF 320 MEDLINE  
AN 96138894 MEDLINE  
DN 96138894 PubMed ID: 8530808  
TI Long-term effects of Enterococcus faecium SF68 versus lactulose in the  
**treatment** of patients with cirrhosis and grade 1-2 hepatic  
encephalopathy.  
AU Loguercio C; Abbiati R; Rinaldi M; Romano A; Del Vecchio Blanco C;  
Coltorti M  
CS Cattedra di Gastroenterologia, Facolta di Medicina e Chirurgia, II  
Universita di Napoli, Italy.  
SO JOURNAL OF HEPATOLOGY, (1995 Jul) 23 (1) 39-46.  
Journal code: IBS; 8503886. ISSN: 0168-8278.  
CY Denmark  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199601  
ED Entered STN: 19960220  
Last Updated on STN: 19960220  
Entered Medline: 19960131

L18 ANSWER 9 OF 320 MEDLINE  
AN 96137796 MEDLINE

DN 96107796 PubMed ID 3555710  
TI Surgical treatment of an enormous aneurysmal portahepatic venous fistula: report of a case.  
AU Miyauchi A; Okada S; Hashimoto T; Wakabayashi H; Maeba T; Tanaka S; Hayashi H  
CS First Department of Surgery, Kagawa Medical School, Japan.  
SO SURGERY TODAY, (1995) 25 (9) 855-8. Ref: 11  
Journal code: BFT; 9204360. ISSN: 0941-1291.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW OF REPORTED CASES)  
LA English  
FS Priority Journals  
EM 199602  
ED Entered STN: 19960312  
Last Updated on STN: 19960312  
Entered Medline: 19960227

L18 ANSWER 10 OF 320 MEDLINE  
AN 96039207 MEDLINE  
DN 96039207 PubMed ID: 7579738  
TI Hyperaluminemia associated with liver transplantation and acute renal failure.  
AU Erasmus R T; Kusnir J; Stevenson W C; Lobo P; Herman M M; Wills M R; Savory J  
CS Department of Pathology, University of Virginia Health Sciences Center, Charlottesville 22908, USA.  
SO CLINICAL TRANSPLANTATION, (1995 Aug) 9 (4) 307-11.  
Journal code: BB5; 8710240. ISSN: 0902-0063.  
CY Denmark  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199512  
ED Entered STN: 19960124  
Last Updated on STN: 19970203  
Entered Medline: 19951215

L18 ANSWER 11 OF 320 MEDLINE  
AN 95404686 MEDLINE  
DN 95404686 PubMed ID: 7674372  
TI Hyperammonemia increases serotonin 1A receptor expression in both rat hippocampus and a transfected hippocampal cell line, HN2-5.  
AU Alexander J J; Banerjee P; Dawson G; Tonsgard J H  
CS Dept. of Pediatrics, University of Chicago, IL 60637, USA.  
NC HD 06426 (NICHD)  
SO JOURNAL OF NEUROSCIENCE RESEARCH, (1995 May 1) 41 (1) 105-10.  
Journal code: JNR; 7600111. ISSN: 0360-4012.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199510  
ED Entered STN: 19951026  
Last Updated on STN: 19951026  
Entered Medline: 19951017

L18 ANSWER 12 OF 320 MEDLINE  
AN 95375901 MEDLINE

DN 95375901 PubMed ID: 7647902  
TI Effect of biotin on ammonia intoxication in rats and mice.  
AU Nagamine T; Saito S; Kaneko M; Sekiguchi T; Sugimoto H; Takehara K;  
Takagi H  
CS First Department of Internal Medicine, Gunma University School of  
Medicine, Maebashi, Japan.  
SO JOURNAL OF GASTROENTEROLOGY, (1995 Jun) 30 (3) 351-5.  
Journal code: BWP; 9430794. ISSN: 0944-1174.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199509  
ED Entered STN: 19951005  
Last Updated on STN: 19980206  
Entered Medline: 19950928

L18 ANSWER 13 OF 320 MEDLINE  
AN 95334797 MEDLINE  
DN 95334797 PubMed ID: 7610459  
TI Alteration of ammonia and carnitine levels in short-term treatment  
with pivalic acid-containing prodrug.  
AU Ito T; Sugiyama N; Kobayashi M; Kidouchi K; Itoh T; Uemura O; Sugiyama K;  
Togari H  
CS Department of Pediatrics, Nagoya City University Medical School.  
SO TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE, (1995 Jan) 175 (1) 43-53.  
Journal code: VTF; 0417355. ISSN: 0040-8727.  
CY Japan  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199508  
ED Entered STN: 19950828  
Last Updated on STN: 19950828  
Entered Medline: 19950816

L18 ANSWER 14 OF 320 MEDLINE  
AN 95278983 MEDLINE  
DN 95278983 PubMed ID: 7759146  
TI Evaluation of the BioLogic-DT sorbent suspension dialyser in patients  
with  
fulminant hepatic failure.  
AU Hughes R D; Pucknell A; Routley D; Langley P G; Wendon J A; Williams R  
CS Institute of Liver Studies, King's College Hospital, London, UK.  
SO INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, (1994 Dec) 17 (12) 657-62.  
Journal code: IJO; 7802649. ISSN: 0391-3988.  
CY Italy  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199506  
ED Entered STN: 19950707  
Last Updated on STN: 19950707  
Entered Medline: 19950629

L18 ANSWER 15 OF 320 MEDLINE  
AN 95227958 MEDLINE  
DN 95227958 PubMed ID: 7712392  
TI **Treatment** of porto-systemic encephalopathy with lactitol verus lactulose: a randomized controlled study.  
AU Pai C H; Huang Y S; Jeng W C; Chan C Y; Lee S D  
CS Department of Medicine, Veterans General Hospital Taipei, Taiwan, R.O.C.  
SO CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1995 Jan) 55 (1) 31-6.  
Journal code: CHQ; 0005327. ISSN: 0578 1337.  
CY TAIWAN: Taiwan, Province of China  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199505  
ED Entered STN: 19950524  
Last Updated on STN: 19950524  
Entered Medline: 19950518

L18 ANSWER 16 OF 320 MEDLINE  
AN 95213558 MEDLINE  
DN 95213558 PubMed ID: 7699233  
TI Effects of long-term administration of low-dose lactitol in patients with cirrhosis but without overt encephalopathy.  
AU Salerno F; Moser P; Maggi A; Vitaliani G; Benetti G  
CS Istituto di Medicina Interna, Universita di Milano, Italy.  
SO JOURNAL OF HEPATOLOGY, (1994 Dec) 21 (6) 1092-6.  
Journal code: IBS; 8503886. ISSN: 0168-8278.  
CY Denmark  
DT (CLINICAL TRIAL)  
(CONTROLLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199505  
ED Entered STN: 19950510  
Last Updated on STN: 19990129  
Entered Medline: 19950503

L18 ANSWER 17 OF 320 MEDLINE  
AN 95145258 MEDLINE  
DN 95145258 PubMed ID: 7842973  
TI Anastomotic coarctation in the **treatment** of serious encephalopathy following splenosystemic shunt.  
AU Xue H Z; Lu Z X; Jiang Q F  
CS Henan Provincial People's Hospital, Zhengzhou.  
SO CHUNG-HUA WAI FO TSA CHIH [CHINESE JOURNAL OF SURGERY], (1994 Jul) 32 (7) 398-9.  
Journal code: D86; 0153611. ISSN: 0529-5815.  
CY China  
DT Journal; Article; (JOURNAL ARTICLE)  
LA Chinese  
FS Priority Journals  
EM 199503  
ED Entered STN: 19950316  
Last Updated on STN: 19950316  
Entered Medline: 19950307

L13 ANSWER 18 OF 320 MEDLINE  
AN 95008467 MEDLINE  
DN 95008467 PubMed ID: 7923999  
TI Effect of acute lactulose administration on serum acetate levels in cirrhosis.  
AU Fernandes J; Morali G; Wolever T M; Blendis L M; Koc M; Jenkins D J; Rao A  
V  
CS Department of Nutritional Sciences, Faculty of Medicine, Toronto Hospital,  
University of Toronto, Ontario.  
SO CLINICAL AND INVESTIGATIVE MEDICINE. MEDECINE CLINIQUE ET EXPERIMENTALE,  
(1994 Jun) 17 (3) 218-25.  
Journal code: DFG; 7804071. ISSN: 0147-958X.  
CY Canada  
DT (CLINICAL TRIAL)  
(CONTROLLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199410  
ED Entered STN: 19941222  
Last Updated on STN: 19990129  
Entered Medline: 19941028

L18 ANSWER 19 OF 320 MEDLINE  
AN 94361648 MEDLINE  
DN 94361648 PubMed ID: 8080406  
TI Congenital portosystemic shunts in Maltese and Australian cattle dogs.  
AU Tisdall P L; Hunt G B; Bellenger C R; Malik R  
CS Veterinary Cardiovascular Unit, University of Sydney, New South Wales.  
SO AUSTRALIAN VETERINARY JOURNAL, (1994 Jun) 71 (6) 174-8.  
Journal code: 9IE; 0370616. ISSN: 0005-0423.  
CY Australia  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199410  
ED Entered STN: 19941013  
Last Updated on STN: 19941013  
Entered Medline: 19941004

L18 ANSWER 20 OF 320 MEDLINE  
AN 94194657 MEDLINE  
DN 94194657 PubMed ID: 8145365  
TI An experience of transjugular intrahepatic portosystemic shunt in the treatment of gastroesophageal varices.  
AU Matsuzaka S; Kanazawa H; Kobayashi M; Kumazaki T  
CS Third Department of Internal Medicine, Nippon Medical School.  
SO NIPPON SHOKAKIBYO GAKKAI ZASSHI. JAPANESE JOURNAL OF GASTROENTEROLOGY,  
(1994 Mar) 91 (3) 257 66.  
Journal code: KJY; 2984683R. ISSN: 0446-6586.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA Japanese  
FS Priority Journals  
EM 199405  
ED Entered STN: 19940511  
Last Updated on STN: 19940511

Entered Medline: 19940504

L18 ANSWER 21 OF 320 MEDLINE  
AN 94155777 MEDLINE  
DN 94155777 PubMed ID: 8012241  
TI Effects of valproate and citrulline on ammonium induced encephalopathy.  
AU Stephens J R; Levy R H  
CS Department of Pharmaceutics, University of Washington, Seattle 98195.  
SO EPILEPSIA, (1994 Jan-Feb) 35 (1) 164-71.  
Journal code: EIK; 2983306R. ISSN: 0013-9580.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199403  
ED Entered STN: 19940406  
Last Updated on STN: 19940406  
Entered Medline: 19940325

L18 ANSWER 22 OF 320 MEDLINE  
AN 94070444 MEDLINE  
DN 94070444 PubMed ID: 8249670  
TI Paroxysmic neuropsychological symptoms as the early expression of hepatic encephalopathy. A case report.  
CM Erratum in: Acta Neurol (Napoli) 1993 Oct;15(5):preceding 321  
AU Abts H; Crols R; Marien P; Saerens J; Holvoet J; de Deyn P  
CS Department of Neurology, General Hospital Middelheim, Antwerp, Belgium.  
SO ACTA NEUROLOGICA, (1993 Aug) 15 (4) 268-76.  
Journal code: 19Y; 0421100. ISSN: 0001-6276.  
CY Italy  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199312  
ED Entered STN: 19940201  
Last Updated on STN: 19950206  
Entered Medline: 19931228

L18 ANSWER 23 OF 320 MEDLINE  
AN 94050346 MEDLINE  
DN 94050346 PubMed ID: 8232725  
TI High ammonia diet: its effect on the glial fibrillary acidic protein (GFAP).  
AU Bodega G; Suarez I; Boyano M C; Rubio M; Villalba R M; Arilla E;  
Gonzalez-Guijarro L; Fernandez B  
CS Departamento de Biología Celular y Genética, Universidad de Alcalá,  
Madrid, Spain.  
SO NEUROCHEMICAL RESEARCH, (1993 Sep) 18 (9) 971-5.  
Journal code: NY9; 7613461. ISSN: 0364-3190.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199312  
ED Entered STN: 19940117  
Last Updated on STN: 19940117  
Entered Medline: 19931207

L18 ANSWER 24 OF 320 MEDLINE  
AN 94025503 MEDLINE

DN 94025503 PubMed ID: 8212501  
TI Idiopathic hepatic fibrosis in 15 dogs.  
AU Putters H C; Haywood S; Kelly D F  
CS Department of Small Animal Medicine and Surgery, Royal Veterinary  
College, Hatfield, Hertfordshire.  
SO VETERINARY RECORD, (1993 Jul 31) 133 (5) 115-8.  
Journal code: XBS; 0021164. ISSN: 0042-4900.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199310  
ED Entered STN: 19940117  
Last Updated on STN: 19980206  
Entered Medline: 19931029

L18 ANSWER 25 OF 320 MEDLINE  
AN 93282907 MEDLINE  
DN 93282907 PubMed ID: 8507304  
TI Changes in the cytoplasmic (lactate dehydrogenase) and plasma membrane  
(acetylcholinesterase) marker enzymes in the synaptic and nonsynaptic  
mitochondria derived from rats with moderate hyperammonemia.  
AU Faff-Michalak L; Albrecht J  
CS Department of Neuropathology, Polish Academy of Sciences, Warsaw.  
SO MOLECULAR AND CHEMICAL NEUROPATHOLOGY, (1993 Apr) 18 (3) 257-65.  
Journal code: AB3; 8910358. ISSN: 1044-7393.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199307  
ED Entered STN: 19930723  
Last Updated on STN: 19930723  
Entered Medline: 19930712

L18 ANSWER 26 OF 320 MEDLINE  
AN 93254000 MEDLINE  
DN 93254000 PubMed ID: 8487502  
TI Carbamoylphosphate synthetase deficiency in an adult: deterioration due  
to administration of valproic acid.  
AU Horiuchi M; Imamura Y; Nakamura N; Maruyama I; Saheki T  
CS Department of Internal Medicine, Faculty of Medicine, Kogoshima  
University, Japan.  
SO JOURNAL OF INHERITED METABOLIC DISEASE, (1993) 16 (1) 39-45.  
Journal code: KY8; 7910918. ISSN: 0141-8955.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199306  
ED Entered STN: 19930618  
Last Updated on STN: 19980206  
Entered Medline: 19930607

L18 ANSWER 27 OF 320 MEDLINE  
AN 93165410 MEDLINE  
DN 93165410 PubMed ID: 8433884  
TI Effect of intravenous amino acids on protein metabolism of preterm  
infants

during the first three days of life.  
AU Rivera A Jr; Bell E F; Bier D M  
CS Department of Pediatrics, University of Iowa, Iowa City 52242.

NC HD07578 (NICHD)  
HD16974 (NICHD)  
HD20805 (NICHD)

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SC PEDIATRIC RESEARCH, (1993 Feb) 33 (2) 106-11.  
Journal code: OWL; 0100714. ISSN: 0031-3998.

CY United States

DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(PANDOMIZED CONTROLLED TRIAL)

LA English

FS Priority Journals

EM 199303

ED Entered STN: 19930402

Last Updated on STN: 19970203

Entered Medline: 19930317

L18 ANSWER 28 OF 320 MEDLINE

AN 93106347 MEDLINE

DN 93106347 PubMed ID: 1458606

TI Obliteration of portal systemic shunts as therapy for hepatic encephalopathy in patients with non-cirrhotic portal hypertension.

AU Ito T; Ikeda N; Watanabe A; Sue K; Kakio T; Mimura H; Tsuji T  
CS First Department of Internal Medicine, Okayama University Medical School, Japan.

SO GASTROENTEROLOGIA JAPONICA, (1992 Dec) 27 (6) 759-64.

Journal code: FHY; 0152744. ISSN: 0435-1339.

CY Japan

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199301

ED Entered STN: 19930212

Last Updated on STN: 19930212

Entered Medline: 19930128

L18 ANSWER 29 OF 320 MEDLINE

AN 93093724 MEDLINE

DN 93093724 PubMed ID: 1459672

TI Effect of three antibacterial drugs in lowering blood & stool ammonia production in hepatic encephalopathy.

AU Alexander T; Thomas K; Cherian A M; Kanakasabapathy  
CS Department of Medicine, Christian Medical College, Vellore.

SO INDIAN JOURNAL OF MEDICAL RESEARCH, (1992 Oct) 96 292-6.

Journal code: CJF; 0374701. ISSN: 0971-5916.

CY India

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199301

ED Entered STN: 19930129

Last Updated on STN: 19930129

Entered Medline: 19930113

L18 ANSWER 30 OF 320 MEDLINE

AN 93054151 MEDLINE

DN 93054151 PubMed ID: 1429294

TI Effect of intraperitoneal administration of lysine and methionine on mohair yield and quality in Angora goats.  
AU Sahlu T; Fernández J M  
CS E. (Kika) de la Garza Institute for Goat Research, Langston University, Oklahoma 73050.  
SO JOURNAL OF ANIMAL SCIENCE, (1992 Oct) 70 (10) 3188-93.  
Journal code: HC7; 8003002. ISSN: 0021-8812.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199212  
ED Entered STN: 19930122  
Last Updated on STN: 19930122  
Entered Medline: 19921201

L18 ANSWER 31 OF 320 MEDLINE  
AN 93038972 MEDLINE  
DN 93038972 PubMed ID: 1418064  
TI Crystalline lactulose in the therapy of hepatic cirrhosis. Evaluation of clinical and immunological parameters. Preliminary results.  
AU Vendemiale G; Palasciano G; Cirelli F; Altamura M; De Vincentis A; Altomare E  
CS Istituto di Clinica Medica 1a, Universita di Bari, Italy.  
SO APZNEIMITTEL-FORSCHUNG, (1992 Jul) 42 (?) 969-72.  
Journal code: 91U; 0372660. ISSN: 0004-4172.  
CY GERMANY: Germany, Federal Republic of  
(CLINICAL TRIAL)  
DT Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199211  
ED Entered STN: 19930122  
Last Updated on STN: 19950206  
Entered Medline: 19921120

L18 ANSWER 32 OF 320 MEDLINE  
AN 92192571 MEDLINE  
DN 92192571 PubMed ID: 1547989  
TI An autopsy case of citrullinemia type II complicated with chronic pancreatitis.  
AU Tatsumoto T; Yamamoto K; Kudo J; Kondo H; Shimamura R; Hirata Y; Ishibashi H; Niho Y; Toki N; Nakashima Y; +  
CS First Department of Internal Medicine, Faculty of Medicine, Kyushu University, Fukuoka.  
SO FUKUOKA IGAKU ZASSHI. FUKUOKA ACTA MEDICA, (1992 Jan) 83 (1) 43-50.  
Journal code: F8R; 9423321. ISSN: 0016-254X.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA Japanese  
FS Priority Journals  
EM 199204  
ED Entered STN: 19920509  
Last Updated on STN: 19920509  
Entered Medline: 19920423

L18 ANSWER 33 OF 320 MEDLINE  
AN 92184210 MEDLINE

DN 92184210 PubMed ID: 1544625  
TI Treatment of hyperammonemia with carbamylglutamate in rats.  
AU Grau E; Felipe V; Minana M D; Grisolia S  
CS Instituto de Investigaciones Citologicas, Centro Asociado del CSIC,  
Valencia, Spain.  
SO HEPATOLOGY, (1992 Mar) 15 (3) 446 8.  
Jurnal code: GBZ; 8302946. ISSN: 0270 9139.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199204  
ED Entered STN: 19920424  
Last Updated on STN: 19980206  
Entered Medline: 19920414

L18 ANSWER 34 OF 320 MEDLINE  
AN 92139736 MEDLINE  
DN 92139736 PubMed ID: 1779615  
TI N acetylglutamate synthetase deficiency: clinical and laboratory  
observations.  
AU Pandya A I; Koch R; Hommes F A; Williams J C  
CS Division of Medical Genetics, Childrens Hospital of Los Angeles, CA  
90054.  
SO JOURNAL OF INHEPITED METABOLIC DISEASE, (1991) 14 (5) 685-90.  
Journal code: KI8; 7910918. ISSN: 0141-8955.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199203  
ED Entered STN: 19920329  
Last Updated on STN: 19990129  
Entered Medline: 19920310

L18 ANSWER 35 OF 320 MEDLINE  
AN 92089579 MEDLINE  
DN 92089579 PubMed ID: 1751811  
TI Rifaximin versus neomycin on hyperammoniemia in chronic portal systemic  
encephalopathy of cirrhotics. A double-blind, randomized trial.  
AU Pedretti G; Calzetti C; Missale G; Fiaccadori F  
CS Cattedra di Malattie Infettive, Universita di Parma, Italy.  
SO ITALIAN JOURNAL OF GASTROENTEROLOGY, (1991 May) 23 (4) 175-8.  
Journal code: A9I; 8000544. ISSN: 0392-0623.  
CY Italy  
DT (CLINICAL TRIAL;  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 199201  
ED Entered STN: 19920216  
Last Updated on STN: 19920216  
Entered Medline: 19920128

L18 ANSWER 36 OF 320 MEDLINE  
AN 91361907 MEDLINE  
DN 91361907 PubMed ID: 2103690  
TI Ammonia metabolism in normal and portacaval-shunted rats.  
AU Cooper A J

CS Department of Biochemistry, Cornell University Medical College, New York,  
NY 10021.  
NC DK-16739 (NIDDK)  
SO ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1990) 272 23 46. Ref:  
126  
Journal code: 2LU; 0121103. ISSN: 0065-2598.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW;  
(PVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 199110  
ED Entered STN: 19911027  
Last Updated on STN: 19911027  
Entered Medline: 19911004

L18 ANSWER 37 OF 320 MEDLINE  
AN 91347467 MEDLINE  
DN 91347467 PubMed ID: 1831712  
TI Propionic acidemia: one case report.  
AU Yuan L  
CS Institute of Basic Medical Sciences, Beijing.  
SO CHUNG-KUO I HSUEH KO HSUEH YUAN HSUEH PAO ACTA ACADEMIAE MEDICINAE  
SINICAE, (1991 Apr) 13 (2) 141-3.  
Journal code: C2S; 8006230. ISSN: 1000-503X.  
CY China  
DT Journal; Article; (JOURNAL ARTICLE)  
LA Chinese  
FS Priority Journals  
EM 199110  
ED Entered STN: 19911020  
Last Updated on STN: 19911020  
Entered Medline: 19911003

L18 ANSWER 38 OF 320 MEDLINE  
AN 91249366 MEDLINE  
DN 91249366 PubMed ID: 2095300  
TI Hyperaminoacidemia in epileptic children treated with valproic acid.  
AU Castro-Gago M; Rodrigo-Saez E; Novo-Rodriguez I; Camina M F;  
Rodriguez-Segade S  
CS Departamento de Pediatría, Hospital Clínico Universitario, Universidad de  
Santiago de Compostela, Spain.  
SO CHILDS NERVOUS SYSTEM, '1990 Dec) 6 (8) 434-6.  
Journal code: CNV; 8503227. ISSN: 0256-7040.  
CY GERMANY: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199107  
ED Entered STN: 19910728  
Last Updated on STN: 19910728  
Entered Medline: 19910705

L18 ANSWER 39 OF 320 MEDLINE  
AN 91231402 MEDLINE  
DN 91231402 PubMed ID: 2030076  
TI Valproate in the **treatment** of persistent chronic daily headache.  
An open label study.  
AU Mathew N T; Ali S

CS Houston Headache Clinic, TX 77004.  
SO HEADACHE, (1991 Feb/ 31 (2): 71-4.  
Journal code: G1N; 2985091R. ISSN: 0017-8748.  
CT United States  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199106  
ED Entered STN: 19910707  
Last Updated on STN: 19910707  
Entered Medline: 19910617

L18 ANSWER 40 OF 320 MEDLINE  
AN 91149785 MEDLINE  
DN 91149785 PubMed ID: 2291040  
TI [Late diagnosis of congenital argininemia during administration of sodium valproate].  
Argininemie congenitale diagnostiquée tardivement à l'occasion de la prescription de valproate de sodium.  
AU Christmann D; Hirsch E; Mutschler V; Collard M; Marescaux C; Colombo J P  
CS Clinique Medicale A, Hopital Civil, Strasbourg, France.  
SO REVUE NEUROLOGIQUE, (1990) 146 (12) 764-6. Ref: 20  
Journal code: SU9; 2984779R. ISSN: 0035-3787.  
CY France  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW OF REPORTED CASES)  
LA French  
FS Priority Journals  
EM 199104  
ED Entered STN: 19910419  
Last Updated on STN: 19910419  
Entered Medline: 19910404

L18 ANSWER 41 OF 320 MEDLINE  
AN 91143354 MEDLINE  
DN 91143354 PubMed ID: 2288226  
TI Continuous monitoring of intracranial pressure in Reye's syndrome--5 years experience.  
AU Chi C S; Law K L; Wong T T; Su G Y; Lin N  
CS Department of Pediatrics, Veterans General Hospital, Taipei Taiwan,  
Republic of China.  
SO ACTA PAEDIATRICA JAPONICA, (1990 Aug) 32 (4) 426-34.  
Journal code: 1L3; 0370357. ISSN: 0374 5600.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199103  
ED Entered STN: 19910412  
Last Updated on STN: 19980206  
Entered Medline: 19910328

L18 ANSWER 42 OF 320 MEDLINE  
AN 90151770 MEDLINE  
DN 90151770 PubMed ID: 2303075  
TI A case of carbamylphosphate synthetase I deficiency associated with secondary carnitine deficiency--L-carnitine treatment of CPS-I

deficiency  
AU Mori T; Tsuchiyama A; Nagai K; Nagao M; Oyanagi K; Tsugawa S  
CS Department of Paediatrics, Sapporo Medical College, Japan.  
SO EUROPEAN JOURNAL OF PEDIATRICS, (1990 Jan) 149 (4) 272-4.  
Journal code: END; 7603873. ISSN: 0340-6199.  
CY GERMANY, WEST: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199003  
ED Entered STN: 19900601  
Last Updated on STN: 19980206  
Entered Medline: 19900321

L18 ANSWER 43 OF 320 MEDLINE  
AN 90125403 MEDLINE  
DN 90125403 PubMed ID: 2692930  
TI An autopsied case of type II citrullinemia--transient effectiveness with either citrate or benzoate to the consciousness disturbance.  
AU Ujihira N; Ohya M; Mabuchi C; Indo T; Hashizume Y  
SO RINSHO SHINKEIGAKU. CLINICAL NEUROLOGY, (1989 Apr) 29 (4) 436-41. Ref: 26  
Journal code: DF2; 0417466. ISSN: 0009-918X.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW OF REPORTED CASES)  
LA Japanese  
FS Priority Journals  
EM 199003  
ED Entered STN: 19900328  
Last Updated on STN: 19990129  
Entered Medline: 19900312

L18 ANSWER 44 OF 320 MEDLINE  
AN 90004150 MEDLINE  
DN 90004150 PubMed ID: 2529084  
TI [Metadoxine in alcohol-related pathology].  
La metadoxina nella patologia alcol-correlata.  
AU Santoni S; Corradini P; Zocchi M; Camarri F  
SO CLINICA TERAPEUTICA, (1989 Jul 31) 130 (2) 115-22.  
Journal code: DKN; 0372604. ISSN: 0009-9074.  
CY Italy  
DT Journal; Article; (JOURNAL ARTICLE)  
LA Italian  
FS Priority Journals  
EM 198911  
ED Entered STN: 19900328  
Last Updated on STN: 19900328  
Entered Medline: 19891121

L18 ANSWER 45 OF 320 MEDLINE  
AN 89136532 MEDLINE  
DN 89136532 PubMed ID: 2906283  
TI Effects of varying doses of methionine sulfoximine on liver glutamine synthetase activity and time courses of blood and urinary nitrogenous compounds in the chicken (*Gallus domesticus*).  
AU Karasawa Y; Nakata C  
CS Laboratory of Animal Nutrition and Feed Science, Faculty of Agriculture, Shinshu University, Nagano-ken, Japan.

SO COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. B: COMPARATIVE BIOCHEMISTRY,  
(1988) 91 (4) 789-92.  
Journal code: DNV; 2984730P. ISSN: 0305-0491.

CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198903  
ED Entered STN: 19900306  
Last Updated on STN: 19980206  
Entered Medline: 19890330

L18 ANSWER 46 OF 320 MEDLINE  
AN 89066362 MEDLINE  
DN 89066362 PubMed ID: 3254697  
TI Effects of corticosteroid **treatment** on survival time in dogs  
with chronic hepatitis: 151 cases (1977-1985).  
CM Comment in: J Am Vet Med Assoc. 1989 Jan 15;194(2):164  
AU Strombeck D R; Miller L M; Harrold D  
CS Department of Medicine, School of Veterinary Medicine, University of  
California, Davis 95616.  
SO JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION, (1988 Nov 1) 193  
(9) 1109-13.  
Journal code: HAV; 7503067. ISSN: 0003-1488.

CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198901  
ED Entered STN: 19900308  
Last Updated on STN: 19900308  
Entered Medline: 19890118

L18 ANSWER 47 OF 320 MEDLINE  
AN 88147917 MEDLINE  
DN 88147917 PubMed ID: 3344727  
TI Venous, arterial, and arterialized-venous **blood ammonia**  
levels and their relationship to hepatic encephalopathy after  
propranolol.  
AU Snady H; Lieber C S  
CS Section of Liver Disease and Nutrition, Veterans Administration Medical  
Center, Bronx, New York.  
NC AA03508 (NIAAA)  
SO AMERICAN JOURNAL OF GASTROENTEROLOGY, (1988 Mar) 83 (3) 249-55.  
Journal code: 3HE; 0421030. ISSN: 0002-9270.

CY United States  
DT (CLINICAL TRIAL)  
(CONTROLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198804  
ED Entered STN: 19900308  
Last Updated on STN: 19970203  
Entered Medline: 19880407

L18 ANSWER 48 OF 320 MEDLINE  
AN 88137801 MEDLINE  
DN 88137801 PubMed ID: 3125077  
TI Enterococcus lactic acid bacteria strain SF68 and lactulose in hepatic

encephalopathy: a controlled study.  
AU Loguercio C; Del Vecchio Bianco C; Coltorti M  
CS Istituto di Medicina Generale e Metodologia Clinica, I Facolta di  
Medicina  
e Chirurgia, University of Naples, Italy.  
SO JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, (1987 Nov-Dec) 15 (6) 335-43.  
Journal code: E62; ISSN: 0300-0605.  
CY ENGLAND: United Kingdom  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Priority Journals  
EM 198804  
ED Entered STN: 19900308  
Last Updated on STN: 19950206  
Entered Medline: 19880407  
  
L18 ANSWER 49 OF 320 MEDLINE  
AN 88086592 MEDLINE  
DN 88086592 PubMed ID: 3693180  
TI Muscle and **blood ammonia** and lactate responses to  
prolonged exercise with hyperoxia.  
AU Graham T E; Pedersen P K; Saltin B  
CS August Krogh Institute, Copenhagen, Denmark.  
SO JOURNAL OF APPLIED PHYSIOLOGY, (1987 Oct) 63 (4) 1457-62.  
Journal code: HEG; 8502536. ISSN: 8750-7587.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198802  
ED Entered STN: 19900305  
Last Updated on STN: 19970203  
Entered Medline: 19880212  
  
L18 ANSWER 50 OF 320 MEDLINE  
AN 88081972 MEDLINE  
DN 88081972 PubMed ID: 3319453  
TI Lactitol, a second-generation disaccharide for **treatment** of  
chronic portal-systemic encephalopathy. A double-blind, crossover,  
randomized clinical trial.  
AU Uribe M; Toledo H; Perez F; Vargas F; Gil S; Garcia-Ramos G; Ravelli G P;  
Guevara L  
CS Gastrointestinal Division, Instituto Nacional de la Nutricion Salvador  
Zubiran, Mexico, D.F.  
SO DIGESTIVE DISEASES AND SCIENCES, (1987 Dec) 32 (12) 1345-53.  
Journal code: EAD; 7902782. ISSN: 0163-2116.  
CY United States  
DT (CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 198802  
ED Entered STN: 19900305  
Last Updated on STN: 19950206  
Entered Medline: 19880202

=> s l18 and xylose?  
L19 0 L18 AND XYLOSE?  
  
=> s l18 and xylobiose?  
L20 0 L18 AND XYLOBIOSE?  
  
=> s l18 and carbohydrate?  
L21 2 L18 AND CARBOHYDRATE?  
  
=> s l18 and sugar?  
L22 6 L18 AND SUGAR?

=> d l21 abs ibib 1-2

L21 ANSWER 1 OF 2 MEDLINE  
AB Seven girls (age 5 to 10 years) with Rett syndrome were investigated extensively. In 6 patients elevations of blood pyruvate were found. Blood lactate levels were marginally elevated. Two patients had variably elevated blood glucose levels. Metabolic studies were otherwise normal apart from minimally elevated **blood ammonia** levels in 3 of 5 patients tested, 2 of whom were on valproic acid. All 7 patients had anticonvulsant resistant seizures. EEG changes included generalized slowing and multifocal spike wave discharges, and pseudo-periodic burst-suppression patterns during sleep. Respiratory monitoring revealed apneic episodes only during the waking record. Six patients were below the 5th centile for weight despite normal caloric intake. **Treatment** with ketogenic diets, using medium chain triglyceride (MCT) oil when possible, has improved seizure control in the 5 patients who could tolerate the diet. Slight behavioral and motor improvement has occurred in these 5 patients and 6 of 7 patients on high fat diets have gained weight.

With a possible defect in **carbohydrate** metabolism and a difficult seizure disorder, use of a ketogenic diet is logical and appears to produce clinical benefit in patients with Rett Syndrome.

ACCESSION NUMBER: 86239363 MEDLINE  
DOCUMENT NUMBER: 86239363 PubMed ID: 3087185  
TITLE: Therapeutic effects of a ketogenic diet in Rett syndrome.  
AUTHOR: Haas R H; Rice M A; Trauner D A; Merritt T A  
CONTRACT NUMBER: RR00827 (NCRR)  
SOURCE: AMERICAN JOURNAL OF MEDICAL GENETICS. SUPPLEMENT, (1986) 1 225-46.  
Journal code: AJM; 8706133. ISSN: 1040-3787.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198606  
ENTRY DATE: Entered STN: 19900321  
Last Updated on STN: 19970203  
Entered Medline: 19860527

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS  
AB Four diets, straw, straw + urea, straw + urea and sucrose, and straw + urea but with a different mineral supplement than fed with diets 1-3, were compared using rumen-fistulated cows. Urea or urea and sucrose were

dissolved in water and administered as continuous ruminal infusions. Increases of apprx. 29% in dry matter digestibility and 17% cellulose digestibility were obtained with urea but not with urea sucrose. Bacterial protein in rumen fluid was increased by an av. of 63% by both urea and urea-sucrose **treatments**. Rumen NH<sub>3</sub> and blood urea levels were increased 10-fold and 3-fold, resp., by the urea infusion, but

the response to urea-sucrose was only 50% as great. Sucrose appeared to be used as an energy source in preference to the straw, as indicated by the increased rate of urea utilization, but tended to depress intake and digestibility of straw as compared with urea only. Dry matter intake, N balance, and total short-chain fatty acids were not significantly altered by the **treatments**, but all showed response trends. Effects of dietary **treatments** on proportions of short-chain fatty acids in the rumen were not consistent.

ACCESSION NUMBER: 1972:84716 CAPLUS  
DOCUMENT NUMBER: 76:84716  
TITLE: Effects of ruminal infusions of urea and urea-sucrose on utilization of oat straw by cows  
AUTHOR(S): Winter, K. A.; Pigden, W. J.  
CORPORATE SOURCE: Res. Branch, Canada Dep. Agric., Ottawa, Ont., Can.  
SOURCE: Can. J. Anim. Sci. (1971), 51(3), 777-81  
CODEN: CNJNAT  
DOCUMENT TYPE: Journal  
LANGUAGE: English

=> d 122 abs ibib 1-6

L22 ANSWER 1 OF 6 MEDLINE  
AB BACKGROUND. Lactitol (beta-galactosido-sorbitol), a novel disaccharide analogue of lactulose, has been suggested as an alternative to lactulose in the **treatment** of portosystemic encephalopathy (PSE) in Western country. In order to assess its therapeutic effect and adverse reaction in PSE in the Chinese, we conducted this study. METHODS. Forty-one patients with PSE were enrolled in this study. Patients were randomly divided into 2 groups to receive lactitol (n = 21) or lactulose (n = 20) for 5 days. The doses of both drugs were adjusted to keep daily bowel movement of 2 to 3 times. The PSE index (mental state, EEG, asterixis, number connection test [NCT], and ammonia) was evaluated in each patient before and after **treatment**. Daily doses of lactitol and lactulose, stool frequency, and side effect were recorded. RESULTS. The mean dose of lactitol used was 66.3 +/- 36.4 gm and that of lactulose was 56.9 +/- 32.1 ml of lactulose. The majority of patients (37/41) gained

clear consciousness after 5 days' **treatment**. In the lactitol group, **blood ammonia**, EEG, NCT, asterixis, mental status and PSE index before **treatment** were 208 +/- 62 micrograms/ml, 2.9 +/- 0.8, 4.0 +/- 0.0, 2.7 +/- 1.5, 2.9 +/- 0.7 and

77.1 +/- 10.5, respectively. All parameters decreased significantly after 5 days' **treatment** (119 +/- 50 micrograms/ml, 1.1 +/- 1.0, 2.9 +/- 1.2, 1.7 +/- 1.1, 0.7 +/- 0.7, and 34.4 +/- 16.0, p < 0.05). The lactulose group had the similar results. However, the improvement of PSE index after

therapy in the lactitol group was significantly higher than that in the lactulose group (42.7 +/- 19.3 vs 31.1 +/- 13.7, p < 0.05). In addition, more patients in the lactitol group than in the lactulose group (67% vs 20%, p = 0.003) favored the taste of their assigned drugs. No patient who

received lactitol experienced any side effects; however, six patients treated with lactulose complained of meteorism and flatulence, and four complained of nausea. CONCLUSIONS. Both lactitol and lactulose are effective in the treatment of PSE, though the effect of lactitol seems slightly superior to that of lactulose in our study. Lactitol is more acceptable to our patients due to better palatability and less side effects. Lactitol is another good alternative in the treatment of PSE.

ACCESSION NUMBER: 95227958 MEDLINE  
DOCUMENT NUMBER: 95227958 PubMed ID: 7712392  
TITLE: **Treatment** of porto-systemic encephalopathy with lactitol verus lactulose: a randomized controlled study.  
AUTHOR: Pai C H; Huang Y S; Jeng W C; Chan C Y; Lee S D  
CORPORATE SOURCE: Department of Medicine, Veterans General Hospital-Taipei, Taiwan, R.O.C.  
SOURCE: CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1995 Jan) 55 (1) 31-6.  
PUB. COUNTRY: Journal code: CHQ; 0005327. ISSN: 0578-1337.  
TAIWAN: Taiwan, Province of China  
(CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199505  
ENTRY DATE: Entered STN: 19950524  
Last Updated on STN: 19950524  
Entered Medline: 19950518

L22 ANSWER 2 OF 6 MEDLINE

AB To investigate the efficacy and the acceptability of different doses of lactitol in patients with subclinical hepatic encephalopathy, 28 patients with cirrhosis were enrolled in a controlled clinical trial comparing 5-month therapies with lactitol at two different doses: 0.3 and 0.5 g/kg bw per day. This period was followed by 1 month of recovery. Patients

were monitored with venous **blood ammonia** determination, three psychometric tests, clinical evaluation of mental status and EEG. The porto-systemic encephalopathy index of Conn was determined periodically. Twenty-two patients completed the trial (11 for each dose

of lactitol). Both doses of lactitol decreased plasma ammonia levels and improved the porto-systemic encephalopathy index. The higher dose was

more effective in improving performance in the psychometric tests. After the period of recovery, both the porto-systemic encephalopathy index and the psychometric test scores returned to pretreatment values. Lactitol was tolerated well by patients. Three patients given the higher dose reported periodic intestinal discomfort, but did not stop taking lactitol or reduce

the dosage; no side-effects were reported by the patients taking the lower

dose. These results indicate that lactitol in doses ranging from 0.3 to 0.5 g/kg bw is a well-tolerated and effective treatment for subclinical encephalopathy.

ACCESSION NUMBER: 95213558 MEDLINE  
DOCUMENT NUMBER: 95213558 PubMed ID: 7699233  
TITLE: Effects of long-term administration of low-dose lactitol in

AUTHOR: patients with cirrhosis but without overt encephalopathy.  
CORPORATE SOURCE: Salerno F; Moser P; Maggi A; Vitaliani G; Benetti G  
Italy.  
SOURCE: JOURNAL OF HEPATOLOGY, (1994 Dec) 21 (6) 1092 6.  
Journal code: IBS; 8503886. ISSN: 0168-8278.  
PUB. COUNTRY: Denmark  
(CLINICAL TRIAL)  
(CONTROLLED CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199505  
ENTRY DATE: Entered STN: 19950510  
Last Updated on STN: 19990129  
Entered Medline: 19950503

L22 ANSWER 3 OF 6 MEDLINE

AB A double blind crossover trial was performed to test the therapeutic usefulness and safety of lactitol, a beta-galactoside sorbitol, against lactose in 18 patients with chronic portal-systemic encephalopathy (PSE). The study included four periods: two for washout and two for lactitol and lactose administration. During washout periods, which lasted two weeks each, patients were stabilized with neomycin plus milk of magnesia. Lactitol and lactose were administered during four weeks each. Ten patients were randomly assigned to receive lactose (group A) and eight patients to receive lactitol (group B) first. PSE parameters, ie, mental state, number connection test performance, asterixis and **blood ammonia** levels were assessed fortnightly. Electroencephalographic tracings and stool pHs were evaluated at the end of each study period. After the first administration of lactose and lactitol, no statistically significant differences in PSE parameters were found. At the same stage,

a significant stool acidification (P less than 0.05) was detected. It is concluded that lactitol seems to be safe and efficacious in treating patients with chronic PSE.

ACCESSION NUMBER: 88081972 MEDLINE  
DOCUMENT NUMBER: 88081972 PubMed ID: 3319453  
TITLE: Lactitol, a second-generation disaccharide for treatment of chronic portal-systemic encephalopathy. A double-blind, crossover, randomized clinical trial.  
AUTHOR: Uribe M; Toledo H; Perez F; Vargas F; Gil S; Garcia-Ramos G; Ravelli G P; Guevara L  
COPORATE SOURCE: Gastrointestinal Division, Instituto Nacional de la Nutricion Salvador Zubiran, Mexico, D.F.  
SOURCE: DIGESTIVE DISEASES AND SCIENCES, (1987 Dec) 32 (12) 1345-53.  
Journal code: EAD; 7902782. ISSN: 0163-2116.  
PUB. COUNTRY: United States  
(CLINICAL TRIAL)  
Journal; Article; (JOURNAL ARTICLE)  
(RANDOMIZED CONTROLLED TRIAL)  
LANGUAGE: English  
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 198802  
ENTRY DATE: Entered STN: 19900305  
Last Updated on STN: 19950206  
Entered Medline: 19880102

L22 ANSWER 4 OF 6 MEDLINE

AB Lactulose is currently the drug of choice for the **treatment** of hepatic encephalopathy. It is, however, only available as a syrup which is contaminated with other **sugars**. Consequently patients may express aversion to its excessively sweet taste and many experience nausea

because of its hyperosmolarity. Lactitol is a disaccharide analogue of lactulose which can be produced as a pure crystalline powder with a low relative sweetness. Theoretically it should have the same therapeutic effects as lactulose but fewer side effects. Five patients with chronic hepatic encephalopathy on maintenance lactulose were monitored clinically, psychometrically, and by measurement of venous **blood ammonia**, electroencephalogram mean cycle frequency, and cerebral blood flow during three months **treatment** with lactulose and a similar period on lactitol. Lactitol was at least as efficacious as lactulose but was more acceptable because its cathartic effect was more predictable, its formulation was more convenient and its less sweet taste preferred. Lactitol is the ideal successor to lactulose for **treatment** of this condition.

ACCESSION NUMBER: 85155704 MEDLINE

DOCUMENT NUMBER: 85155704 PubMed ID: 3979914

TITLE: Lactitol in the **treatment** of chronic hepatic encephalopathy: an open comparison with lactulose.

AUTHOR: Lanthier P L; Morgan M Y

SOURCE: GUT, (1985 Apr) 26 (4) 415-20.  
Journal code: FVT; 2985108R. ISSN: 0017-5749.

PUB. COUNTRY: ENGLAND: United Kingdom  
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 198505

ENTRY DATE: Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19850509

L22 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB Healthy young male subjects exercised to exhaustion on a bicycle ergometer

at a work load requiring apprx. 75% of max. O uptake. This work test was performed after placebo administration or after ingestion of 6 g of K-Mg aspartate over a 24-h period, using a double-blind protocol. Exhaustion was reached after 82.7 min following aspartate **treatment** and after 85.4 min following the placebo. No differences in the blood glucose, lactate, or NH<sub>3</sub> or in the plasma free fatty acid concn. between the 2 **treatments** were obsd. The respiratory exchange ratio was the same on both occasions. Thus, no beneficial effect of oral aspartate administration on work capacity in man is obsd., and the metabolic processes that occur during exercise apparently are not influenced by

this

**treatment**.

ACCESSION NUMBER: 1983:502873 CAPLUS

DOCUMENT NUMBER: 99:102873

TITLE: The effects of oral administration of salts of aspartic acid on the metabolic response to prolonged exhausting exercise in man

AUTHOR(S): Maughan, R. J.; Sadler, D. J. M.  
CORPORATE SOURCE: Dep. Surg., Univ. Med. Sch., Foresterhill/Aberdeen,

AB9 2ZD, UK  
SOURCE: Int. J. Sports Med. (1983), 4(2), 119-23  
CODEN: IJSMDA  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L22 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS  
AB The plasma ammonia concn. was pos. correlated to the severity of hepatic encephalopathy. A protein-rich (120 g protein/day) diet resulted in a 2-fold increase in **blood ammonia** and a 3-fold increase in serum phenols in patients with cirrhosis without portal hypertension, whereas a 2.5-fold increase in **blood ammonia** and a 4-fold increase in serum phenols was obsd. in patients with cirrhosis with portal hypertension when compared with normal values. Ethanol ingestion (60 g) caused transient hyperammonemia and hypertriglyceridemia in healthy subjects, whereas in patients with fatty liver, these elevations were prolonged. Ethanol withdrawal resulted in a rapid return of to previously elevated plasma ammonia and .gamma.-glutamyltransferase values to normal. Distraneurin decreased the elevated plasma ammonia, glucose, and lactate levels in patients with delirium tremens. Pathol. methionine degrdn. products were present in the serum and cerebrospinal fluid of liver cirrhosis patients and correlated with disease severity. Cysteine, taurine, and arom. amino acids were also increased in the serum and cerebrospinal fluid of hepatic coma patients. The toxic effects of the arom. amino acid metabolites and the **treatment** of hepatic encephalopathy is discussed.  
ACCESSION NUMBER: 1979:521834 CAPLUS  
DOCUMENT NUMBER: 91:121834  
TITLE: Amino acids and their toxic metabolites in serum, cerebrospinal fluid and urine in hepatic encephalopathy  
AUTHOR(S): Muetting, Dieter; Reikowski, Johanna  
CORPORATE SOURCE: Heinz-Kalk-Klin. Inn. Med. Gastroenterol., Bad Kissingen, Fed. Rep. Ger.  
SOURCE: Aminosaeuren, Ammoniak Hepatische Enzephalopathie, Int. Ammoniak-Symp., 3rd (1978), Meeting Date 1977, 9-21. Editor(s): Wewalka, Friedrich; Dragosics, Brigitte. Fischer: Stuttgart, Fed. Rep. Ger.  
CODEN: 41FTA7  
DOCUMENT TYPE: Conference  
LANGUAGE: German

=> log y	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	164.12	164.33
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